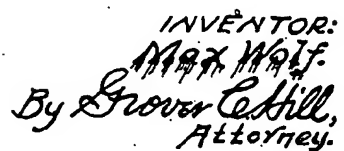


**M. WOLF**

# BEER COIL CLEANSING DEVICE

Filed Dec. 10, 1934



## UNITED STATES PATENT OFFICE

2,047,539

## BEER COIL CLEANSING DEVICE

Max Wolf, Detroit, Mich.

Application December 10, 1934, Serial No. 756,735

1 Claim. (Cl. 225—12)

Due to the particular nature of beer coils of the customary use at the present time, it is very difficult to clean them effectively. In fact it is almost an impossibility to accomplish this work in the face of the methods presently employed.

For obvious reasons beer coils must be kept in a thoroughly cleaned condition at all times, which is essential so as to maintain the high quality of the beer and retain the maximum food value characteristic to wholesome drinks of this nature.

In the various methods used all are more or less ineffective, and for this reason, and the primary purpose of my invention is to provide a simple and effective device that is automatic in its operation, and whereby the coils may be quickly cleaned and thoroughly flushed with pure water, which is accomplished with the aid of a suitable cleansing fluid that is forced through the coils by the pressure of the water.

It will become apparent during the progress of this disclosure that the invention possesses further advantages, all of which will be clearly revealed in the following detailed description, illustrated throughout the accompanying drawing, and more specifically pointed out in the appended claim.

With reference to the drawing:

Figure 1 is an end elevation of the device.

Figure 2 is a transverse section taken directly upon line 2—2 of forth-coming Figure 3.

Figure 3 is a longitudinal section taken upon line 3—3 of Figure 1.

Figure 4 is a top plan view of the device.

Figure 5 is a diagrammatic view, illustrating how the cleansing fluid is driven or forced through the device and beer coil.

The invention comprises tank 1, which may be composed of metal or of any suitable material for this purpose. The tank also may be of rectangular formation as indicated in the drawing, or it may be of any other shape consistent with the requirements.

Base 2 is provided and is permanently secured to said tank where indicated, and has flared sides and ends 3, and said base forming thereby a substantial foundation and support for tank 1.

The upper portion of tank 1 is completely inclosed by top 4, which is permanently secured to same in any approved manner. Internally threaded neck 5 is provided and forming a part of said top, so as to fully accommodate threadedly engaging filler cap 6 as shown.

With particular reference to Figure 3, it is clearly observed that a plurality of laterally extending and spaced apart partitions 7 are employed and having the side edges thereof flanged as at 8 so as to be permanently secured to the respective side walls of tank 1, also flanged edge 9 being formed upon the top or upon the bottom of the respective partitions for securing the same to the bottom and to the top of said tank in alternating relation as indicated.

By means of filler cap 6 tank 1 is completely filled with a suitable cleansing fluid 10, and by means of hose A, having coupling B secured thereto, and to which is connected a hose having connection with the water supply line. The opposite end of said hose being connected to tubular member 11, which is permanently secured to tank 1 where shown. Fresh water is then permitted to flow through hose A directly into said tank, and by virtue of the alternating space provided at the top and bottom of the tank concerning partitions 7, the inflow of fresh water will drive or force fluid 10 in the direction of the arrows in Figure 3, thereby forcing said fluid through tubular member 12, which is permanently secured to tank 1 where shown, thence through hose C which is connected to beer faucet D and likewise through beer coil E.

The particular arrangement of partitions 7 causing the fluid to travel in alternating up and down movement within tank 1, makes possible the fact that the force of the fresh water will always remain at the rear of said fluid, thus positively insuring that the fluid will be forced through coil E unadulterated with the water, whereas if partitions 7 were not provided and arranged as indicated, the fresh water would readily mix with fluid 10 upon entering tank 1, with the resultant effect being that the fluid would be adulterated with the water to such extent so as to render it ineffective for this purpose.

The water pressure indicated by the light broken line F, and the cleansing fluid indicated by the heavy broken line G in Figure 5, serve to further illustrate how the pressure of the water will force the fluid through coil E and thoroughly flush the same with fresh water, thus completing the successful operation of the device.

In conclusion it is to be understood that the single embodiment of my invention herein described is merely illustrative for purpose of revealing the structural principle of the same, and does not necessarily confine it to the specific details of construction, should the occasion arise whereby certain slight changes would be necessary during any probable further development of the invention for the market.

Having thus fully described my invention, what I claim as new is:

In a beer coil cleansing device of a closed tank containing a cleansing fluid a series of vertically disposed parallel spaced baffles arranged in the tank, the baffles extending alternately from the bottom and top of said tank and terminating in spaced relation respectively to said top and bottom, an outlet at one end of the tank a pipe for connecting the outlet with a beer coil, a fresh water inlet at the other end of the tank for connection with a source of water supply, the water admitted to the inlet of the tank acting as a pressure medium to force the cleansing fluid to flow in a circuitous path through the tank and be discharged through the outlet into the beer coil without mixing with the fresh water, the fresh water admitted to the tank acting as a flushing medium when discharged through the outlet into the beer coil.

MAX WOLF. 10